

Table 173. Energy Consumption Estimates by Source, Selected Years 1960-1997, Montana

Year	Coal ^a	Natural Gas ^b	Petroleum											Nuclear Electric Power	Hydro-electric Power ^d		Net Interstate Flow of Electricity/Losses ^g	Total ^h	
			Asphalt & Road Oil ^a	Aviation Gasoline ^a	Distillate Fuel ^a	Jet Fuel ^a	Kerosene ^a	LPG ^a	Lubricants ^a	Motor Gasoline	Residual Fuel ^a	Other ^{a,c}	Total						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million kWh	Biomass ^e	Other ^{a,f}	Million kWh		
1960	254	56	865	1,006	4,898	265	477	737	161	6,922	2,063	1,635	19,028	0	5,800	-	-3,181	-	
1965	370	71	1,003	312	4,962	384	248	926	189	7,709	1,241	2,531	19,505	0	8,388	-	-6,938	-	
1970	763	88	1,347	43	4,827	649	376	1,326	200	9,262	1,268	3,155	22,452	0	8,744	-	-1,251	-	
1975	1,149	80	924	79	7,586	818	122	1,370	208	10,630	2,178	3,410	27,325	0	10,164	-	-6,056	-	
1980	3,520	61	1,020	159	7,509	920	0	1,806	247	10,416	4,025	3,007	29,110	0	9,963	-	-11,328	-	
1985	5,713	47	1,463	91	11,317	678	10	1,576	225	10,188	133	2,581	28,261	0	10,244	-	-13,692	-	
1986	7,780	41	1,989	105	7,004	867	22	1,505	220	10,158	47	2,657	24,574	0	10,855	-	-25,273	-	
1987	7,730	39	1,642	82	6,556	718	8	1,716	249	10,258	23	3,392	24,644	0	8,951	-	-24,830	-	
1988	10,634	42	1,473	107	6,308	809	4	1,515	240	10,441	221	3,801	24,920	0	8,240	-	-35,099	-	
1989	10,458	46	1,749	95	7,679	750	3	1,608	246	10,310	182	3,913	26,535	0	NA	-	R -38,192	-	
1990	9,676	43	1,487	111	7,422	708	8	1,740	253	10,328	221	4,255	26,534	0	NA	-	R -38,514	-	
1991	10,549	45	1,350	108	8,321	615	3	1,053	227	10,360	146	3,714	25,896	0	NA	-	R -45,370	-	
1992	11,040	46	1,309	75	7,716	864	1	1,018	231	10,727	89	4,725	26,755	0	NA	-	R -38,472	-	
1993	9,247	53	1,707	64	8,004	901	8	2,200	235	10,999	689	4,171	28,978	0	NA	-	-33,274	-	
1994	11,089	52	1,964	75	8,254	855	7	1,055	246	11,097	374	4,497	28,424	0	NA	-	R -36,923	-	
1995	10,005	58	1,293	78	8,924	1,052	1	918	242	11,328	240	4,462	28,537	0	NA	-	R -38,109	-	
1996	8,032	61	1,702	99	9,818	999	1	1,660	235	11,753	184	5,050	31,500	0	NA	-	R -38,457	-	
1997	9,517	60	1,448	71	10,782	792	2	1,676	248	11,480	165	4,864	31,528	0	NA	-	-49,765	-	
Trillion Btu																			
1960	4.0	57.6	5.7	5.1	28.5	1.4	2.7	3.0	1.0	36.4	13.0	9.8	106.6	0.0	62.4	R 7.5	0.0	-10.9	R 227.3
1965	5.5	70.8	6.7	1.6	28.9	2.1	1.4	3.7	1.1	40.5	7.8	15.2	109.0	0.0	87.7	R 7.8	0.0	-23.7	R 257.2
1970	12.0	90.6	8.9	0.2	28.1	3.6	2.1	5.0	1.2	48.7	8.0	19.0	124.8	0.0	91.8	R 6.6	0.0	-4.3	R 321.6
1975	18.6	81.2	6.1	0.4	44.2	4.6	0.7	5.1	1.3	55.8	13.7	20.5	152.4	0.0	105.8	R 6.2	0.0	-20.7	R 343.5
1980	60.2	61.5	6.8	0.8	43.7	5.2	0.0	6.6	1.5	54.7	25.3	18.1	162.7	0.0	103.5	R 6.9	0.0	-38.6	R 356.1
1985	99.1	47.3	9.7	0.5	65.9	3.8	0.1	5.7	1.4	53.5	0.8	15.9	157.2	0.0	107.0	R 8.9	(s)	-46.7	R 372.8
1986	133.2	41.1	13.2	0.5	40.8	4.8	0.1	5.5	1.3	53.4	0.3	16.4	136.4	0.0	113.4	R 15.7	(s)	-86.2	R 353.7
1987	132.9	39.6	10.9	0.4	38.2	4.0	(s)	6.3	1.5	53.9	0.1	20.7	136.1	0.0	93.3	R 13.8	0.0	-84.7	R 330.9
1988	181.5	42.9	9.8	0.5	36.7	4.5	(s)	5.5	1.5	54.8	1.4	23.0	137.8	0.0	85.1	R 14.4	0.0	-119.8	R 341.9
1989	178.4	46.7	11.6	0.5	44.7	4.2	(s)	5.9	1.5	54.2	1.1	23.6	147.3	0.0	Ri 100.1	Ri 13.2	Ri 0.1	-130.3	Ri 355.4
1990	166.1	44.4	9.9	0.6	43.2	4.0	(s)	6.3	1.5	54.3	1.4	25.6	146.8	0.0	R 111.9	R 8.4	R 0.1	-131.4	R 346.3
1991	180.2	46.7	9.0	0.5	48.5	3.5	(s)	3.8	1.4	54.4	0.9	22.5	144.5	0.0	R 125.2	R 8.5	R 0.1	R -154.8	R 350.5
1992	189.8	46.6	8.7	0.4	44.9	4.8	(s)	3.7	1.4	56.3	0.6	28.4	149.2	0.0	R 85.9	R 9.2	R 0.1	-131.3	R 349.5
1993	157.7	54.3	11.3	0.3	46.6	5.0	(s)	7.9	1.4	57.8	4.3	25.2	160.0	0.0	99.4	R 9.2	R 0.1	-113.5	R 367.1
1994	189.3	53.3	13.0	0.4	48.1	4.8	(s)	3.8	1.5	58.3	2.4	27.1	159.4	0.0	84.8	R 10.7	R 0.1	R -126.0	R 372.2
1995	171.2	59.6	8.6	0.4	52.0	5.9	(s)	3.3	1.5	59.5	1.5	26.9	159.6	0.0	R 111.1	R 11.1	R 0.1	-130.0	R 382.7
1996	135.7	63.2	11.3	0.5	57.2	5.7	(s)	6.0	1.4	61.7	1.2	30.4	175.3	0.0	R 142.9	R 11.4	R 0.1	R -131.2	R 397.7
1997	160.7	61.7	9.6	0.4	62.8	4.5	(s)	6.1	1.5	60.3	1.0	29.3	175.4	0.0	138.3	11.0	0.1	-169.8	377.5

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels.

^c "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

^d If applicable, through 1988, includes all net imports of electricity, and, from 1989, includes only the portion of imports of electricity that is derived from hydroelectric power.

^e "Biomass" is wood, waste, and ethanol. Ethanol blended into motor gasoline is included in motor gasoline and total petroleum. It is also included in the biomass series to give complete biomass data, but it is counted only once in the energy total.

^f "Other" is geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

^g Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. A positive number

indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.

^h From 1989, "Total" does not equal the sum of the columns. Ethanol (which is shown in the transportation sector table) is included in both motor gasoline and biomass data in this table but only once in the total. Net imports of electricity generated from nonrenewable energy sources (shown in appendix Table A8) is included in the total in this table but not in any other columns.

ⁱ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1989.

kWh=kilowatthours. R=Revised data. -=Not applicable. NA=Not available.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 174. Residential Energy Consumption Estimates, Selected Years 1960-1997, Montana

Year	Coal			Natural Gas ^b	Petroleum				Wood	Geothermal	Solar ^c	Electricity ^a	Million Kilowatthours	Net Energy	Electrical System Energy Losses ^d		
	Bituminous Coal and Lignite ^a	Anthracite ^a	Total		Distillate Fuel ^a	Kerosene ^a	LPG ^a	Total									
					Billion Cubic Feet	Thousand Barrels				Thousand Cords							
Year	Thousand Short Tons			Natural Gas ^b	Billion Cubic Feet				Wood	Geothermal	Solar ^c	Electricity ^a	Million Kilowatthours	Net Energy	Million Kilowatthours	Total	
1960	11	0	11	17	262	0	506	768	R 237	—	—	935	—	2,327	—		
1965	8	0	8	20	277	0	636	914	R 182	—	—	1,216	—	2,904	—		
1970	4	0	4	25	249	0	887	1,137	R 139	—	—	1,534	—	3,717	—		
1975	4	0	4	24	589	0	973	1,562	R 153	—	—	2,143	—	5,169	—		
1980	5	0	5	19	421	0	829	1,250	R 125	—	—	2,916	—	7,091	—		
1985	3	0	3	19	345	9	604	959	R 174	—	—	3,614	—	8,491	—		
1986	8	0	8	17	351	14	641	1,006	R 169	—	—	3,214	—	7,393	—		
1987	3	0	3	15	247	1	709	957	R 83	—	—	3,139	—	7,173	—		
1988	3	0	3	17	235	1	715	951	R 86	—	—	3,301	—	7,463	—		
1989	18	(S)	19	18	366	1	831	1,198	R 89	—	—	3,456	—	R 7,765	—		
1990	20	0	20	17	288	1	813	1,102	89	—	—	3,358	—	R 7,346	—		
1991	16	0	16	18	356	1	703	1,060	94	—	—	3,459	—	R 7,530	—		
1992	7	0	7	17	218	(S)	598	816	99	—	—	3,286	—	R 7,020	—		
1993	4	0	4	20	267	7	548	822	91	—	—	3,598	—	7,602	—		
1994	1	0	1	19	189	6	541	736	R 89	—	—	3,567	—	R 7,443	—		
1995	4	0	4	20	252	1	473	726	99	—	—	3,640	—	R 7,583	—		
1996	1	0	1	22	438	1	519	958	99	—	—	3,911	—	8,139	—		
1997	29	0	29	21	910	2	519	1,432	72	—	—	3,804	—	7,900	—		
Trillion Btu																	
1960	0.2	0.0	0.2	17.5	1.5	0.0	2.0	3.6	R 4.7	0.0	0.0	3.2	R 29.2	7.9	R 37.2		
1965	0.2	0.0	0.2	19.9	1.6	0.0	2.6	4.2	R 3.6	0.0	0.0	4.1	R 32.1	9.9	R 42.0		
1970	0.1	0.0	0.1	25.6	1.5	0.0	3.4	4.8	R 2.8	0.0	0.0	5.2	R 38.5	12.7	R 51.2		
1975	0.1	0.0	0.1	24.6	3.4	0.0	3.6	7.0	R 3.1	0.0	0.0	7.3	R 42.1	17.6	R 59.7		
1980	0.1	0.0	0.1	19.5	2.5	0.0	3.0	5.5	R 2.5	0.0	0.0	9.9	R 37.5	24.2	R 61.7		
1985	(S)	0.0	(S)	19.4	2.0	0.1	2.2	4.2	R 3.5	0.0	0.0	12.3	R 39.4	29.0	R 68.4		
1986	0.1	0.0	0.1	16.8	2.0	0.1	2.3	4.5	R 3.4	0.0	0.0	11.0	R 35.7	25.2	R 61.0		
1987	(S)	0.0	(S)	15.6	1.4	(S)	2.6	4.0	R 1.7	0.0	0.0	10.7	R 32.1	24.5	R 56.6		
1988	0.1	0.0	0.1	17.3	1.4	(S)	2.6	4.0	R 1.7	0.0	0.0	11.3	R 34.3	25.5	R 59.8		
1989	0.4	(S)	0.4	18.5	2.1	(S)	3.1	5.2	R 1.8	e (S)	R e (S)	11.8	R e 37.7	26.5	R e 64.2		
1990	0.4	0.0	0.4	17.3	1.7	(S)	2.9	4.6	1.8	(S)	(S)	11.5	R 35.6	25.1	60.6		
1991	0.3	0.0	0.3	18.9	2.1	(S)	2.5	4.6	1.9	(S)	(S)	11.8	R 37.6	25.7	63.2		
1992	0.1	0.0	0.1	17.0	1.3	(S)	2.2	3.4	2.0	(S)	(S)	11.2	33.8	24.0	57.8		
1993	0.1	0.0	0.1	20.7	1.6	(S)	2.0	3.6	1.8	(S)	(S)	12.3	38.5	25.9	64.4		
1994	(S)	0.0	(S)	19.2	1.1	(S)	2.0	3.1	1.8	(S)	(S)	12.2	R 36.3	25.4	R 61.7		
1995	0.1	0.0	0.1	20.2	1.5	(S)	1.7	3.2	2.0	(S)	(S)	12.4	37.9	25.9	63.8		
1996	(S)	0.0	(S)	22.8	2.6	(S)	1.9	4.4	2.0	(S)	(S)	13.3	42.6	27.8	70.4		
1997	0.5	0.0	0.5	21.6	5.3	(S)	1.9	7.2	1.4	(S)	(S)	13.0	43.8	27.0	70.8		

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels.

^c Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.

^d Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^e There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of

non-electric utility use of renewable energy beginning in 1989.

R=Revised data.

—=Not applicable.

(S)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 175. Commercial Energy Consumption Estimates, Selected Years 1960-1997, Montana

Year	Coal			Natural Gas ^b	Petroleum						Wood	Electricity ^a	Electrical System Energy Losses ^c	Total ^d		
	Bituminous Coal and Lignite ^a	Anthracite ^a	Total		Distillate Fuel ^a	Kerosene ^a	LPG ^a	Motor Gasoline	Residual Fuel ^a	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels						Thousand Cords	Geothermal	Million Kilowatthours	Net Energy	Million Kilowatthours	
1960	20	0	20	12	297	466	89	135	2	989	R 4	-	688	-	1,711	-
1965	15	0	15	14	315	227	112	144	1	800	R 3	-	925	-	2,208	-
1970	8	0	8	19	283	94	157	220	1	755	R 3	-	1,187	-	2,877	-
1975	7	0	7	19	668	54	172	174	2	1,071	R 3	-	1,645	-	3,968	-
1980	9	0	9	14	346	0	146	92	7	591	R 3	-	2,094	-	5,092	-
1985	5	0	5	15	863	(s)	107	72	126	1,167	NA	-	4,245	-	9,973	-
1986	14	0	14	13	403	7	113	76	37	636	NA	-	4,456	-	10,250	-
1987	5	0	5	11	305	(s)	125	80	13	523	NA	-	2,979	-	6,807	-
1988	6	0	6	12	199	(s)	126	76	9	410	NA	-	3,202	-	7,239	-
1989	34	(s)	34	13	204	(s)	147	77	13	440	NA	-	3,070	-	R 6,898	-
1990	37	0	37	12	153	(s)	143	84	11	391	NA	-	3,237	-	R 7,080	-
1991	29	0	29	13	204	(s)	124	63	3	394	NA	-	3,326	-	R 7,239	-
1992	14	0	14	12	169	(s)	106	55	4	334	NA	-	3,396	-	7,253	-
1993	7	0	7	14	194	1	97	12	5	308	R 7	-	3,495	-	7,384	-
1994	3	0	3	13	189	1	95	15	3	304	R 7	-	3,657	-	7,630	-
1995	7	0	7	13	118	(s)	83	13	3	218	R 7	-	3,411	-	R 7,106	-
1996	3	0	3	15	308	(s)	92	19	3	422	R 8	-	3,603	-	R 7,499	-
1997	54	0	54	14	215	(s)	92	12	1	320	7	-	3,577	-	7,428	-
Trillion Btu																
1960	0.4	0.0	0.4	12.3	1.7	2.6	0.4	0.7	(s)	5.5	R 0.1	0.0	2.3	R 20.6	5.8	26.4
1965	0.3	0.0	0.3	14.1	1.8	1.3	0.5	0.8	(s)	4.3	R 0.1	0.0	3.2	R 22.0	7.5	29.5
1970	0.2	0.0	0.2	19.2	1.6	0.5	0.6	1.2	(s)	3.9	R 0.1	0.0	4.1	R 27.4	9.8	R 37.2
1975	0.1	0.0	0.1	19.0	3.9	0.3	0.6	0.9	(s)	5.8	R 0.1	0.0	5.6	R 30.6	13.5	44.1
1980	0.2	0.0	0.2	14.4	2.0	0.0	0.5	0.5	(s)	3.1	R 0.1	0.0	7.1	R 24.9	17.4	R 42.3
1985	0.1	0.0	0.1	14.8	5.0	(s)	0.4	0.4	0.8	6.6	NA	0.0	14.5	36.0	34.0	70.0
1986	0.3	0.0	0.3	12.5	2.3	(s)	0.4	0.4	0.2	3.4	NA	0.0	15.2	31.4	35.0	66.4
1987	0.1	0.0	0.1	11.2	1.8	(s)	0.5	0.4	0.1	2.7	NA	0.0	10.2	24.2	23.2	47.4
1988	0.1	0.0	0.1	12.3	1.2	(s)	0.5	0.4	0.1	2.1	NA	0.0	10.9	25.4	24.7	50.1
1989	0.7	(s)	0.7	13.4	1.2	(s)	0.5	0.4	0.1	2.2	NA	0.1	10.5	26.8	23.5	50.3
1990	0.7	0.0	0.7	12.5	0.9	(s)	0.5	0.4	0.1	1.9	NA	0.1	11.0	R 26.2	24.2	R 50.4
1991	0.5	0.0	0.5	13.2	1.2	(s)	0.4	0.3	(s)	2.0	NA	0.1	11.3	27.1	24.7	51.8
1992	0.2	0.0	0.2	11.8	1.0	(s)	0.4	0.3	(s)	1.7	NA	0.1	11.6	R 25.4	24.7	50.1
1993	0.1	0.0	0.1	14.1	1.1	(s)	0.3	0.1	(s)	1.6	0.1	0.1	11.9	R 28.0	25.2	53.1
1994	(s)	0.0	(s)	13.3	1.1	(s)	0.3	0.1	(s)	1.6	0.1	0.1	12.5	R 27.6	26.0	R 53.6
1995	0.1	0.0	0.1	13.9	0.7	(s)	0.3	0.1	(s)	1.1	0.1	0.1	11.6	R 26.9	24.2	R 51.2
1996	(s)	0.0	(s)	15.3	1.8	(s)	0.3	0.1	(s)	2.2	0.2	0.1	12.3	R 30.1	25.6	R 55.7
1997	1.0	0.0	1.0	14.3	1.3	(s)	0.3	0.1	(s)	1.7	0.1	0.1	12.2	29.4	25.3	54.7

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

R=Revised data.

-=Not applicable. NA=Not available.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

^b Includes supplemental gaseous fuels.

^c Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^d Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

Table 176. Industrial Energy Consumption Estimates, Selected Years 1960-1997, Montana

Year	Coal	Natural Gas ^a	Petroleum										Hydro-electric Power ^b	Wood and Waste	Other ^{b,d}	Electricity ^b	Electrical System Energy Losses ^e	Total	
			Asphalt and Road Oil ^b	Distillate Fuel ^b	Kerosene ^b	LPG ^b	Lubricants ^b	Motor Gasoline	Residual Fuel ^b	Other ^{b,c}	Total	Million kWh	Million kWh	Net Energy	Million kWh	NA	NA		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels										Other ^{b,d}	NA	NA	NA	NA		
1960	36	26	865	1,500	11	112	23	816	1,684	1,635	6,647	0	—	—	2,951	—	7,341	—	
1965	52	34	1,003	1,693	21	164	41	887	914	2,531	7,255	0	—	—	3,939	—	9,406	—	
1970	28	41	1,347	1,274	282	246	46	635	1,123	3,155	8,107	0	—	—	6,029	—	14,610	—	
1975	50	34	924	2,494	68	174	46	774	1,963	3,410	9,853	0	—	—	5,160	—	12,447	—	
1980	154	20	1,020	1,925	0	786	51	619	4,018	3,007	11,426	0	—	—	5,815	—	14,140	—	
1985	225	10	1,463	5,798	(s)	814	46	677	7	2,581	11,386	0	—	—	5,841	—	13,722	—	
1986	319	9	1,989	2,124	2	696	45	637	10	2,657	8,160	0	—	—	6,150	—	14,147	—	
1987	192	10	1,642	1,802	7	844	51	574	10	3,392	8,322	0	—	—	6,304	—	14,405	—	
1988	215	10	1,473	1,619	2	626	50	575	212	3,801	8,359	0	—	—	6,438	—	14,555	—	
1989	197	12	1,749	2,783	2	578	51	631	169	3,913	9,875	f NA	—	—	6,535	—	R 14,683	—	
1990	220	12	1,487	2,749	7	717	52	615	209	4,255	10,092	NA	—	—	6,529	—	14,281	—	
1991	281	12	1,350	3,559	2	178	47	611	143	3,714	9,603	NA	—	—	6,622	—	R 14,416	—	
1992	251	14	1,309	2,589	(s)	279	48	572	86	4,725	9,608	NA	—	—	6,414	—	13,701	—	
1993	367	15	1,707	2,737	(s)	1,513	49	567	684	4,171	11,427	NA	—	—	5,837	—	12,332	—	
1994	572	16	1,964	2,275	(s)	360	51	603	371	4,497	10,121	NA	—	—	5,961	—	R 12,438	—	
1995	622	20	1,293	2,645	(s)	333	50	646	237	4,462	9,666	NA	—	—	6,368	—	R 13,266	—	
1996	131	21	1,702	3,461	(s)	1,032	48	663	181	5,050	12,137	NA	—	—	6,306	—	R 13,123	—	
1997	148	21	1,448	3,220	(s)	1,050	51	686	164	4,864	11,483	NA	—	—	4,537	—	9,422	—	
Trillion Btu																			
1960	0.8	27.0	5.7	8.7	0.1	0.5	0.1	4.3	10.6	9.8	39.8	0.0	R 2.7	0.0	10.1	R 80.4	25.0	R 105.4	
1965	1.2	34.3	6.7	9.9	0.1	0.7	0.3	4.7	5.7	15.2	43.2	0.0	R 3.7	0.0	13.4	R 95.8	32.1	R 127.9	
1970	0.6	42.5	8.9	7.4	1.6	0.9	0.3	3.3	7.1	19.0	48.5	0.0	R 3.0	0.0	20.6	R 115.2	49.8	R 165.1	
1975	1.0	34.6	6.1	14.5	0.4	0.6	0.3	4.1	12.3	20.5	58.9	0.0	R 3.0	0.0	17.6	R 115.1	42.5	R 157.5	
1980	2.9	20.3	6.8	11.2	0.0	2.9	0.3	3.3	25.3	18.1	67.8	0.0	R 4.1	0.0	19.8	R 115.0	48.2	R 163.2	
1985	4.1	10.3	9.7	33.8	(s)	2.9	0.3	3.6	(s)	15.9	66.2	0.0	R 4.8	0.0	19.9	R 105.3	46.8	R 152.1	
1986	5.7	9.3	13.2	12.4	(s)	2.5	0.3	3.3	0.1	16.4	48.2	0.0	R 11.7	0.0	21.0	R 95.9	48.3	R 144.2	
1987	3.4	10.1	10.9	10.5	(s)	3.1	0.3	3.0	0.1	20.7	48.6	0.0	R 11.7	0.0	21.5	R 95.3	49.1	R 144.4	
1988	3.9	10.6	9.8	9.4	(s)	2.3	0.3	3.0	1.3	23.0	49.2	0.0	R 12.1	0.0	22.0	R 97.8	49.7	R 147.5	
1989	3.6	11.9	11.6	16.2	(s)	2.1	0.3	3.3	1.1	23.6	58.2	f NA	R f 0.3	R f 10.6	R f (s)	22.3	R f 107.0	50.1	R f 157.1
1990	4.0	12.0	9.9	16.0	(s)	2.6	0.3	3.2	1.3	25.6	59.0	0.5	R 5.8	R (s)	22.3	R 103.6	48.7	R 152.4	
1991	5.2	11.9	9.0	20.7	(s)	0.6	0.3	3.2	0.9	22.5	57.2	0.5	R 6.0	R (s)	22.6	R 103.4	49.2	R 152.6	
1992	4.7	14.4	8.7	15.1	(s)	1.0	0.3	3.0	0.5	28.4	57.0	0.5	R 6.3	R (s)	21.9	R 104.9	46.7	R 151.6	
1993	6.8	15.3	11.3	15.9	(s)	5.5	0.3	3.0	4.3	25.2	65.5	0.7	R 6.4	R (s)	19.9	R 114.6	42.1	R 156.7	
1994	10.5	16.6	13.0	13.3	(s)	1.3	0.3	3.2	2.3	27.1	60.5	0.6	R 8.3	R (s)	20.3	R 116.8	42.4	R 159.3	
1995	11.2	21.0	8.6	15.4	(s)	1.2	0.3	3.4	1.5	26.9	57.3	0.5	R 9.0	R (s)	21.7	R 120.7	45.3	R 166.0	
1996	2.4	21.1	11.3	20.2	(s)	3.7	0.3	3.5	1.1	30.4	70.5	0.6	R 9.3	R (s)	21.5	R 125.4	44.8	R 170.1	
1997	2.7	21.7	9.6	18.8	(s)	3.8	0.3	3.6	1.0	29.3	66.4	0.6	9.4	(s)	15.5	116.3	32.1	148.5	

^a Includes supplemental gaseous fuels.^b The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.^c "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."^d "Other" is geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.^e Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.^f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1989.

R=Revised data.

kWh=kilowatthours. —=Not applicable. NA=Not available.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 177. Transportation Energy Consumption Estimates, Selected Years 1960-1997, Montana

Year	Coal ^a	Natural Gas ^b	Petroleum									Ethanol ^c	Electricity ^a	Net Energy	Electrical System Energy Losses ^d	Total ^c	
			Aviation Gasoline ^a	Distillate Fuel ^a	Jet Fuel ^a	LPG ^a	Lubricants ^a	Motor Gasoline	Residual Fuel ^a	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours	Million Kilowatthours	Million Kilowatthours	Million Kilowatthours		
1960	1	(s)	1,006	2,839	265	29	137	5,972	377	10,624	0	0	—	0	0	—	
1965	(s)	(s)	312	2,676	384	13	148	6,678	325	10,536	0	0	—	0	0	—	
1970	(s)	1	43	3,020	649	36	154	8,407	119	12,428	0	0	—	0	0	—	
1975	(s)	2	79	3,835	818	50	162	9,682	160	14,786	0	0	—	0	0	—	
1980	0	3	159	4,759	920	45	196	9,705	0	15,786	0	0	—	0	0	—	
1985	0	2	91	4,273	678	51	179	9,439	(s)	14,711	0	0	—	0	0	—	
1986	0	2	105	4,101	867	55	175	9,445	0	14,748	0	0	—	0	0	—	
1987	0	2	82	4,157	718	39	197	9,604	0	14,798	0	0	—	0	0	—	
1988	0	2	107	4,192	809	48	190	9,789	0	15,137	0	0	—	0	0	—	
1989	0	2	95	4,266	750	53	195	9,602	0	14,962	R e 515	0	—	0	0	—	
1990	0	2	111	4,169	708	67	201	9,630	0	14,885	594	0	—	0	0	—	
1991	0	2	108	4,161	615	48	180	9,687	0	14,798	471	0	—	0	0	—	
1992	0	3	75	4,705	864	35	183	10,100	0	15,963	573	0	—	0	0	—	
1993	0	4	64	4,758	901	43	187	10,421	0	16,373	639	0	—	0	0	—	
1994	0	4	75	5,559	855	58	195	10,479	0	17,221	0	0	—	0	0	—	
1995	0	4	78	5,856	1,052	28	192	10,669	0	17,875	698	0	—	0	0	—	
1996	0	3	99	5,570	999	16	186	11,070	0	17,941	0	0	—	0	0	—	
1997	0	3	71	6,397	792	15	197	10,782	0	18,254	0	0	—	0	0	—	
Trillion Btu																	
1960	(s)	0.5	5.1	16.5	1.4	0.1	0.8	31.4	2.4	57.7	0.0	0.0	58.2	0.0	58.2	—	
1965	(s)	0.4	1.6	15.6	2.1	0.1	0.9	35.1	2.0	57.3	0.0	0.0	57.8	0.0	57.8	—	
1970	(s)	0.7	0.2	17.6	3.6	0.1	0.9	44.2	0.7	67.4	0.0	0.0	68.1	0.0	68.1	—	
1975	(s)	1.8	0.4	22.3	4.6	0.2	1.0	50.9	1.0	80.4	0.0	0.0	82.1	0.0	82.1	—	
1980	0.0	2.9	0.8	27.7	5.2	0.2	1.2	51.0	0.0	86.0	0.0	0.0	88.9	0.0	88.9	—	
1985	0.0	2.2	0.5	24.9	3.8	0.2	1.1	49.6	(s)	80.0	0.0	0.0	82.2	0.0	82.2	—	
1986	0.0	2.1	0.5	23.9	4.8	0.2	1.1	49.6	0.0	80.1	0.0	0.0	82.2	0.0	82.2	—	
1987	0.0	2.0	0.4	24.2	4.0	0.1	1.2	50.4	0.0	80.5	0.0	0.0	82.5	0.0	82.5	—	
1988	0.0	2.3	0.5	24.4	4.5	0.2	1.2	51.4	0.0	82.2	0.0	0.0	84.5	0.0	84.5	—	
1989	0.0	2.5	0.5	24.8	4.2	0.2	1.2	50.4	0.0	81.3	R e (s)	0.0	e 83.8	0.0	e 83.8	—	
1990	0.0	2.1	0.6	24.3	4.0	0.2	1.2	50.6	0.0	80.9	(s)	0.0	83.0	0.0	83.0	—	
1991	0.0	2.4	0.5	24.2	3.5	0.2	1.1	50.9	0.0	80.4	(s)	0.0	82.8	0.0	82.8	—	
1992	0.0	3.1	0.4	27.4	4.8	0.1	1.1	53.1	0.0	86.9	(s)	0.0	90.0	0.0	90.0	—	
1993	0.0	3.8	0.3	27.7	5.0	0.2	1.1	54.7	0.0	89.1	(s)	0.0	92.9	0.0	92.9	—	
1994	0.0	3.6	0.4	32.4	4.8	0.2	1.2	55.0	0.0	94.0	0.0	0.0	97.6	0.0	97.6	—	
1995	0.0	4.1	0.4	34.1	5.9	0.1	1.2	56.0	0.0	97.7	0.1	0.0	101.7	0.0	101.7	—	
1996	0.0	3.5	0.5	32.4	5.7	0.1	1.1	58.2	0.0	97.9	0.0	0.0	101.5	0.0	101.5	—	
1997	0.0	3.6	0.4	37.3	4.5	0.1	1.2	56.6	0.0	100.0	0.0	0.0	103.6	0.0	103.6	—	

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

^c Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector and is included only once in the total.

^d Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^e There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1989.

R=Revised data.

—=Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 178. Estimates of Energy Input at Electric Utilities, Selected Years 1960-1997, Montana

Year	Coal			Natural Gas ^a	Petroleum				Nuclear Electric Power	Hydroelectric Power ^e	Wood and Waste	Geothermal Energy	Other ^{b,f}	Total ^g				
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil ^{b,c}	Light Oil ^{b,d}	Petroleum Coke ^b	Total										
	Billion Cubic Feet			Thousand Barrels				Million Kilowatthours										
Year	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours									
1960	187	0	187	(s)	(s)	(s)	0	(s)	5,800	0	0	0	0	-				
1965	296	0	296	2	1	(s)	0	1	8,388	37	0	0	0	-				
1970	723	0	723	3	26	(s)	0	26	0	8,744	73	0	0	-				
1975	1,089	0	1,089	1	53	1	0	54	0	10,164	14	0	0	-				
1980	3,352	0	3,352	4	0	59	0	59	0	9,963	17	0	0	-				
1985	5,480	0	5,480	(s)	0	38	0	38	0	10,244	59	0	(s)	-				
1986	7,438	0	7,438	(s)	0	25	0	25	0	10,855	61	0	(s)	-				
1987	7,530	0	7,530	(s)	0	44	0	44	0	8,951	49	0	0	-				
1988	10,410	0	10,410	(s)	0	63	0	63	0	8,240	55	0	0	-				
1989	10,208	0	10,208	(s)	0	60	0	60	0	R 9,561	72	0	0	-				
1990	9,399	0	9,399	(s)	0	63	0	63	0	10,711	75	0	0	-				
1991	10,223	0	10,223	(s)	0	41	0	41	0	11,944	62	0	0	-				
1992	10,768	0	10,768	(s)	0	35	0	35	0	8,254	79	0	(s)	-				
1993	8,869	0	8,869	(s)	0	48	0	48	0	9,575	78	0	0	-				
1994	10,513	0	10,513	1	0	42	0	42	0	8,171	42	0	0	-				
1995	9,373	0	9,373	(s)	0	53	0	53	0	10,727	0	0	0	-				
1996	7,897	0	7,897	(s)	0	41	0	41	0	13,776	0	0	0	-				
1997	9,286	0	9,286	(s)	0	39	0	39	0	13,357	0	0	0	-				
Trillion Btu																		
1960	2.5	0.0	2.5	0.4	(s)	(s)	0.0	(s)	0.0	62.4	0.0	0.0	0.0	65.3				
1965	3.9	0.0	3.9	2.0	(s)	(s)	0.0	(s)	0.0	87.7	0.4	0.0	0.0	94.0				
1970	11.2	0.0	11.2	2.6	0.2	(s)	0.0	0.2	0.0	91.8	0.8	0.0	0.0	106.5				
1975	17.4	0.0	17.4	1.2	0.3	(s)	0.0	0.3	0.0	105.8	0.1	0.0	0.0	124.8				
1980	57.0	0.0	57.0	4.4	0.0	0.3	0.0	0.3	0.0	103.5	0.2	0.0	0.0	165.4				
1985	94.8	0.0	94.8	0.6	0.0	0.2	0.0	0.2	0.0	107.0	0.6	0.0	(s)	203.3				
1986	127.2	0.0	127.2	0.5	0.0	0.1	0.0	0.1	0.0	113.4	0.6	0.0	(s)	241.9				
1987	129.4	0.0	129.4	0.6	0.0	0.3	0.0	0.3	0.0	93.3	0.5	0.0	0.0	224.0				
1988	177.4	0.0	177.4	0.3	0.0	0.4	0.0	0.4	0.0	85.1	0.6	0.0	0.0	263.7				
1989	173.7	0.0	173.7	0.4	0.0	0.4	0.0	0.4	0.0	R 99.7	0.8	0.0	0.0	275.0				
1990	161.0	0.0	161.0	0.5	0.0	0.4	0.0	0.4	0.0	111.4	0.8	0.0	0.0	274.1				
1991	174.2	0.0	174.2	0.3	0.0	0.2	0.0	0.2	0.0	R 124.6	R 0.7	0.0	0.0	R 300.1				
1992	184.7	0.0	184.7	0.3	0.0	0.2	0.0	0.2	0.0	R 85.4	0.8	0.0	(s)	271.4				
1993	150.7	0.0	150.7	0.3	0.0	0.3	0.0	0.3	0.0	98.7	0.8	0.0	0.0	250.8				
1994	178.7	0.0	178.7	0.7	0.0	0.2	0.0	0.2	0.0	R 84.3	0.4	0.0	0.0	264.8				
1995	159.7	0.0	159.7	0.4	0.0	0.3	0.0	0.3	0.0	R 110.6	0.0	0.0	0.0	R 271.2				
1996	133.3	0.0	133.3	0.5	0.0	0.2	0.0	0.2	0.0	142.4	0.0	0.0	0.0	276.5				
1997	156.5	0.0	156.5	0.4	0.0	0.2	0.0	0.2	0.0	137.7	0.0	0.0	0.0	294.9				

^a Includes supplemental gaseous fuels.^b The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.^c Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.^d Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.^e If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.^f "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.^g If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns. See data in appendix Table A8.

R=Revised data.

- =Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.